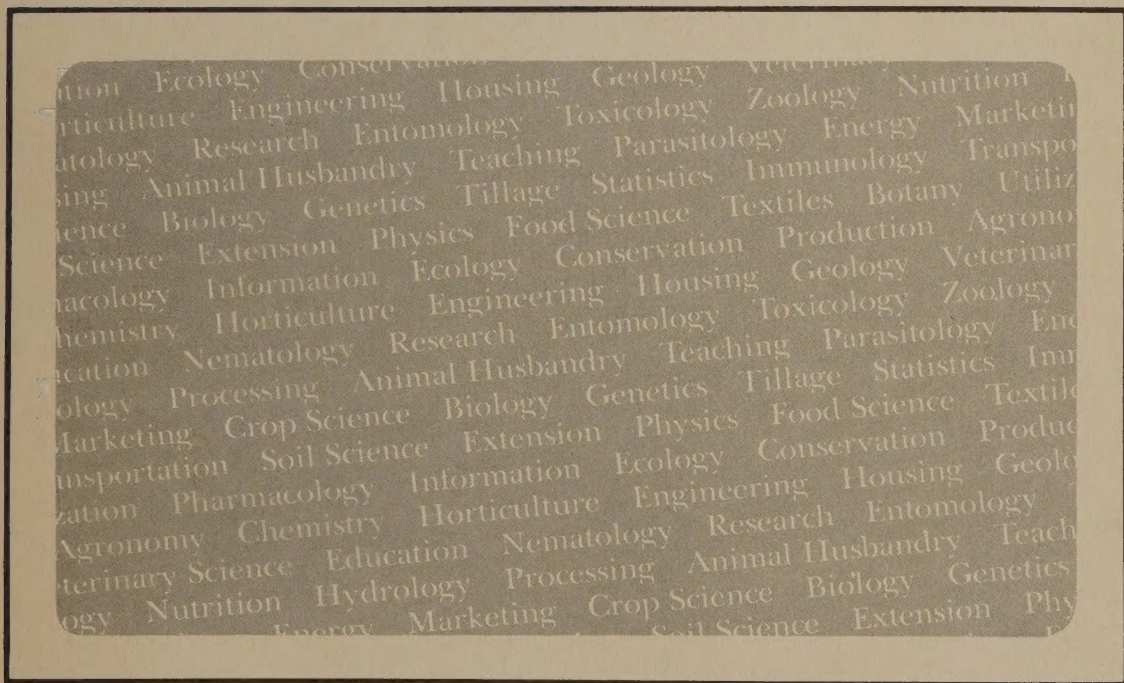


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A Bibliography of the Sugarcane Borer, *Diatraea saccharalis* (Fabricius), 1887-1980

By Richard M. Roe, A. M. Hammond, Jr., T. E. Reagan, and S. D. Hensley

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By Richard M. Roe,¹ A. M. Hammond, Jr.,¹ T. E. Reagan,¹ and S. D. Hensley²

ABSTRACT

The bibliography contains 1,193 citations taken from 10 standard bibliographic sources and from personal communications and references cited in articles. All articles indexed in the sources under *D. saccharalis* and most of its synonyms are included. Author, subject, and chronological indexes are included. Index terms: bibliographies, *Diatraea saccharalis* (Fabricius), sugarcane borer.

INTRODUCTION

Distribution and host plants.—The sugarcane borer, *Diatraea saccharalis* (Fabricius),³ occurs in all agroecosystems of the Western Hemisphere where sugarcane (the interspecific hybrids of *Saccharum officinarum* L.) is grown (Williams et al. 1969). Other important cultivated hosts include maize, *Zea mays* L.; sorghum, *Sorghum bicolor* (L.) Moench; and rice, *Oryza sativa* L. Areawide populations of *D. saccharalis* are higher and suppression of the pest is more difficult when one or more of these crops are cultured in the same ecosystem with sugarcane. The sugarcane borer also develops in several large-stemmed wild grasses, particularly when these occur as weeds within or near fields of sugarcane or other cultivated hosts (Holloway et al. 1928 and Hensley 1971).

Biology and damage to sugarcane.—The egg masses of *D. saccharalis* are deposited on sugarcane leaves, and the young larvae migrate to and feed in the plant spindles or leaf sheaths until half-grown; they then tunnel into the internodes, complete development, and pupate. The moths exit the stalks through the tunnels constructed by the larvae. There are at least five larval stages, and the life cycle from egg to adult is completed in 30 to 40 days (Hensley 1971).

Four or five generations of *D. saccharalis* occur each year in Louisiana sugarcane fields (Hensley 1971); more occur in warmer tropical climates where perennial growth of sugarcane is not interrupted annually by cold temperatures. During the fall in Louisiana, large larvae enter a state of arrested development termed diapause and overwinter above ground in crop residues or below ground in sugarcane stubs and seed pieces. Diapause of *D. saccharalis* is not known to occur in the tropical ecosystems of Latin America.

The sugarcane borer damages sugarcane by tunneling in the internodes, which reduces tonnage and sucrose quality, stunts growth, weakens stalks, increases the likelihood of lodging and breakage, kills terminal buds and causes

¹Graduate assistant, professor, and associate professor, Department of Entomology, Louisiana Agricultural Experiment Station, Louisiana State University, Baton Rouge, La. 70803.

²Research leader for sugarcane pests, U.S. Sugarcane Field Research Laboratory, Agricultural Research Service, U.S. Department of Agriculture, P.O. Box 470, Houma, La. 70361.

³Lepidoptera: Pyralidae.

suckering, destroys some vegetative buds (eyes) of seed cane, and increases the susceptibility of the cane to pathogens. Reduction in stalk weight is the most significant damage in Louisiana (Long and Hensley 1972). Invasion by stalk-rot pathogens through larval tunnels, particularly infection by the red rot fungus, *Phylospora tucumanensis* Speg., is believed to be more important in several Latin American countries.

Pest status.—*D. saccharalis* has long been considered to be the most destructive pest attacking sugarcane in the Western Hemisphere (Williams et al. 1969). Yield losses average about 13% annually in Louisiana when seasonal infestations are not maintained below the economic threshold of damage (Long et al. 1960 and Pollet et al. 1978). *D. saccharalis* is also a serious pest of maize and sorghum in the Gulf Coast region of the United States and several Latin American countries, especially when these crops are cultured in the same ecosystem with sugarcane.

Suppression.—Biological control, especially the introduction or augmentation of larval and egg parasites, is the most common method of suppressing *D. saccharalis* in the Latin American countries (Williams et al. 1969). In Louisiana a combination of cultivar resistance, cultural practices, and conservation of arthropod predators has been successful in suppressing the pest (Hensley 1971, Long and Hensley 1972, and Solomon 1973). Insecticides are applied, but only for quick reduction of economically damaging infestations that are not controlled by the other suppressive measures.

Bibliographic sources and synonymy.—To our knowledge, no previous attempt has been made to locate and organize the extensive, diverse literature on *D. saccharalis*, to make it accessible to research and extension workers. Entries for this bibliography were obtained from the following sources: Bibliography of Agriculture (1942, Vol. 1, through 1980, Vol. 44, Nos. 3-4), Biological Abstracts (1926, Vol. 1, through 1980, Vol. 70, No. 12), Biological Abstracts/RRM (1965, Vol. 1, through 1980, Vol. 19, No. 5), Commonwealth Agricultural Bureaux Abstracts (through 1979), Conference Papers Index (through 1979), Comprehensive Dissertation Index (1861-1978), Monthly Catalog of United States Government Publica-

tions (1895 through October 1980), Review of Applied Entomology, Series A (1913, Vol. 1, through 1980, Vol. 68, No. 10), Scisearch (through 1979), the Zoological Record (1887, Vol. 24, through 1975, Vol. 112), and personal communications and references cited in articles. The bibliographic source for each article, with the exception of personal communications and references cited in other articles, is given in brackets at the end of the entry. The abbreviations used are consistent with the bibliographic source from which the article was taken.

The bibliography contains all articles from the above sources that were indexed by the following species names in the genus *Diatraea* (synonyms for *Diatraea saccharalis*, Box 1931): *incomparella*, *obliteratella*, *pedidocla*, *saccharalis*, *saccharalis crambidoides*, *saccharalis grenadensis*, *saccharalis oblitteratellus*, *saccharalis saccharalis*, *sacchari*, and *sacchari brasiliensis*. The bibliography does not include the following synonyms for *D. saccharalis*: *Chilo oblitteratellus*, *Crambus leucaniellus*, *Crambus lineosellus*, *Crambus sacchari*, *Diatraetria saccharalis*, and *Phalaena saccharalis* (most if not all of these synonyms predate 1887). For a complete listing of taxonomic references to *D. saccharalis* and its synonyms, see Dyar and Heinrich (1927) and Box (1931). Prior to 1911, all references to *D. saccharalis* included the southern corn stalk borer, *D. crambidoides* (Grote), the southwestern corn borer, *D. grandiosella* Dyar, and the sugarcane borer, *D. saccharalis* (F.) (Rolston 1955). In 1911, Dyar made the southern corn stalk borer a separate species. By 1927, Dyar and Heinrich had cleared up much of the confusion concerning the identity of the species in *Diatraea*. Hence, references to *D. saccharalis* prior to 1927 should be reviewed critically.

Organization.—Citations are listed alphabetically by author (last names only), then by publication date, and, if required, alphabetically by title of article and title of journal or book. Unsigned articles are alphabetized under "anonymous" in the bibliography; in the author index they are alphabetized under the agency responsible for the article. The subject table following the author index is a general guide to the information in the entries. Articles are assigned to categories within the subject grid by the year of publication and by the subjects in the abstract, when available, or in the article title.

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 Yin, C. M., 1192
 Yoder, P. A., 1193

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REFERENCES GROUPED BY SUBJECT

	Before 1910	1910-1919	1920-1929
General Biology	313,490,578, 797-8,1046	9,140,570,646	122,237,292,424,549,551,575,593
Taxonomy, Morphology, Distribution	151,1046	39,102,398,541,545,570, 937,1165	122,181,237-8,255,336,399,549, 575,668,1018,1173
Physiology, Diapause, Behavior, Reproduction		546,570,1163	526,575,1024
Rearing		570	575
Ecology	151,798,1046	9,37,105,541,570,1164-6	54-5,57,109,168,181,184,291,349, 526,549-51,566,575,647,667-9, 955,1170,1176
Plant Resistance, Varieties	1046	35	51,57,168,176-7,184,186,566-7, 593,667-9,940,955,1170,1176
Other Host Plant--Borer Interaction	1046	9,37,108,348,397,473,481, 570,682,1163	46,57,98,109,122,172,181,185, 188,238,291,297,336,526,550-1, 553,568,575,593,647,667-9,872-3, 955,1067,1156,1159,1168-9
Radiobiology, Sterilization			
Chemical Control	1046	544,570	20-1,512-3,524-6,528,549-50,552-4,574-5,583-4,667,719-20,754,878
Cultural Control	798,1046	35,105,140-1,144,397,473, 481,541-3,570,646,682,894, 1000,1104,1163-5,1188	20-1,50,55,57,158-9,168,170,172, 291,297,338,349,460,526,549-54, 556,558,564-6,575,580-4,593,667-9,671,720,754,871-2,878,955,1159, 1170-1,1174,1176,1193
Biological Control			44,109,184,781,877-8
Parasites	797,1046	39,40,138,140-2,144,333, 347-8,480-1,540-2,544, 547,569-70,579,590,628, 646,894,1104,1163-4,1167	15-6,50-1,59,109,147,149,158-61, 166-75,178-83,187-8,240-1,291, 293-4,296,329,349-50,460,462-4, 526-7,529-30,537,548-9,552-5, 557,566,575,580-2,593,667,669, 868,870,875-7,955,1018,1020-1, 1068,1073,1138-9,1159,1170-1
Predators	1046	37,141,145,320,540-1,570, 646	168,235,575,875,955,1024,1159
Pathogens		348,570,645-6,937,1104	168,575,668,870,874,955,1159
Economics, Management	151,319,797, 1046	9,10,35-8,40-1,102-5,139, 141-4,146,162,332,334-5, 347,397,481,541,569-70, 590,628,646,714,796,894, 1140,1163,1165	20-1,42-7,49,50,52-8,109,122,148, 158-9,161,166,168,170,172,184, 237,239,251,290-1,295-7,317,321, 336-8,349,461-2,464-5,526,537, 549,551,556,568,575-6,583,593, 647,669,671,756,878,951,955,998-9,1017,1019,1021-2,1035,1068, 1073,1121,1135,1156,1159,1172-3, 1175
Miscellaneous	1046	539-40,570,736	48,554,575,593,737,1040

AND BY PERIOD OF PUBLICATION

1930-1939	1940-1949
260,765,863	132,205,209,352,459,484-8,597,627, 652-3,942-3,956,1051,1099,1137
190,194,199,869,1152,1179	205-6,489,595,627,652,675,956,1099
1032,1081,1092,1094	73,205
	131,1051
191-3,197,199,202,256,300,400,514,516,522-3,685, 805,808,834,863,881,1033,1081,1083-4,1088,1090, 1092,1094,1098,1177-8	73,75,205,360,383,407,591,597,1099
193,197,299,300,401,403-6,411,519,560,685,688, 745,1042,1082,1092,1095-6,1098,1179	77,346,407,425,597,604,644,740,1047
65,191,193,195-8,202-3,234,300,400,519,688,758, 805,809-10,869,880,1076,1149	205,360,407,489,597,627,652-3,675, 1162
67,234,410,520,1042	30-2,85,136,363-4,367,384,391,596-7, 599,600-1,605-7,612-3,1103,1161,1162
60-1,67,191,193,197,234,253,256,516,520,559,610, 685,835,880,971,1031,1085	360,363,407,597,627
357	975-6,992-3
17-8,62-3,66,68-9,111,189,191-3,195-204,234,260- 1,300-4,356,358,361,400,417,515,517-8,520,522-3, 531-6,559,561,573,610,633-41,643,790-1,801,804- 10,863-4,881,939,969-71,1025-6,1033,1038,1041-2, 1045,1069,1074-81,1083-7,1089-91,1093-8,1149, 1151-3,1180	3,25-6,30-4,70,72-4,77-84,86,112-5, 205,208,259,268,305-8,339,345-6,362- 3,414,467,485-6,571,591,597,609,627, 642,652,687,867,942-3,972-4,989-91, 1043-4,1070,1099,1137,1160-1,1181, 1183-5
202,402,1081,1083,1182	597
191,193,195,202,670	597,652
61-2,64-5,191,196-8,202,261,298,300,302,400,402, 519,521,603,610,684,776,790,809-10,862,864,869, 879-80,1031,1033,1041-2,1074,1076,1095-6,1098, 1122,1136,1149-52,1178	32,71,75-6,78,83,94,118,205,254,257, 308,346,351,360,363-6,383,407,425, 456,468,483,485-6,562,594-5,597,602, 617-8,627,652,675,865,867,882-3,944, 956,974-5,1105,1107,1111,1154,1162
64,234,572	207,954

REFERENCES GROUPED BY SUBJECT AND

	1950-1959
General	210, 214, 371, 620, 729, 905, 1060
Biology	
Taxonomy, Morphology, Distribution	87, 210-2, 215, 221, 223-4, 227-9, 420-1, 938, 1110
Physiology, Diapause, Behavior, Reproduction	895
Rearing	322-5
Ecology	212, 223, 229, 232, 289, 470, 655, 744, 918, 988, 1008, 1110
Plant Resistance, Varieties	97, 210, 212, 330-1, 447, 608, 620, 679, 681, 729, 749-50, 887, 895, 1008, 1039, 1110
Other Host Plant--Borer Interaction	106, 110, 210, 212, 219, 221, 224, 227, 229, 371, 409, 608, 620, 717, 729-31, 742, 744, 837, 887, 1060
Radiobiology, Sterilization	
Chemical Control	96, 116, 137, 250, 370-2, 376, 380, 382, 386, 392-3, 598, 608, 614, 620, 679, 693-5, 697, 702-4, 707, 709, 729, 732, 750, 821, 887, 918, 977, 1012, 1036-7
Cultural Control	212, 370-1, 379, 381, 608, 620, 729, 750, 895
Biological Control	217, 264, 649, 984-5
Parasites	1, 7, 116, 119, 210-2, 215, 219, 221-4, 230, 232, 265, 269-75, 279, 285, 287, 325-6, 359, 370-1, 421, 446, 448, 470, 563, 608, 611, 619- 20, 648, 729, 750, 777, 837, 846, 887, 914-7, 919-25, 978-82, 985-6, 988, 1005-10, 1100- 1, 1110, 1155
Predators	262-3, 470, 619-20, 701, 729, 837, 986, 988
Pathogens	230, 233, 620, 729, 986, 988
Economics, Management	87, 106, 116, 210-2, 215-6, 218, 220-1, 223- 6, 230, 258, 266, 284, 289, 368-9, 371, 373- 5, 377-8, 385, 387-8, 394-5, 420, 474, 608, 615-6, 620, 654-5, 689, 706, 709, 729, 731, 742-4, 748, 750-1, 755, 799, 802-3, 861, 866, 887, 904, 945, 983, 1005, 1060, 1106, 1110
Miscellaneous	213, 229, 389-90, 470, 692

BY PERIOD OF PUBLICATION—Continued

1960-1969	1970-1980
117,165,248,328,413,422,426-8,449,491,587, 1186	101,589,716,994
4,6,117,342,491,621,1158	135,315,443,691,793,936,1192
11,416,422,475,492,501,629-30,650-1,787, 824-5,847,855-6,860,1118-20,1124,1126-7, 1131,1158,1186	22,152,157,163,433,435,438,476-9,589,658, 662,676-7,691,716,721,771-2,788-9,833,848, 857-9,884,935,997,1030,1116,1147-8,1192
4,165,499,501,586-7,622,631,786,838,841, 1134,1186-7	242-4,246-7,318,355,418-9,452,454,589,623, 657,713,752,766,769,958,994-6,1117,1133
11,422,432,507,588,779,814-5,952,1027,1158	133,135,152-3,156-7,435-6,589,632,662-3, 666,768,793-5,960,1029,1115
4-5,24,117,415,429,500,673,708,738-9,1052, 1158	99,267,309-12,396,408,430-1,435,453,503, 624-6,662-3,674,678,680,691,711-2,723-4, 727-8,752,829-31,836,839-40,845,849-50,888, 994,1054,1064-5,1112,1114,1141,1157
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117,236,328,413,432,1158	691,726,770,811,845,1056,1146
413,823,926,929,1001	851,1011,1029
8,28-9,90,117,123-4,128-9,231,252,276-7, 286,288,314,457-8,588,592,683,718,733,778- 80,785,800,844,893,903,927-8,930-1,965, 987,1142-3,1158	2,12,91,93,101,120-1,125-7,130,135,150,245, 249,281,316,344,412,434-6,440-5,450-1,454- 5,469,471-2,482,511,538,577,589,632,656-7, 659-61,665-6,686,691,710,725,759-64,773-4, 783,792,794-5,811,852-3,885,888,891-2,932- 4,941,950,960,968,1016,1023,1048,1050,1057, 1059,1061-3,1071-2,1102,1115
280,422,510,814-8	2,95,135,281,589,819,832,857,909,960,1145- 6
622,753	13-4,278,281,672,782,1133
8,29,88-9,107,117,123,164,277,282-3,327, 415,423,493,507,690,734,741,746,757,779, 812-3,827,847-8,1003-4,1158	23,92-3,134,354,466,494-6,511,589,691,699, 700,715,722,725,735,795,822,886,947,957, 1028,1034,1049,1058,1113
826,889,1055	155,997

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